

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (original). An access node for optical networks with variable access wavelengths, comprising:

a plurality of first optical conductors each disposed to connect a respective user device;

at least one second optical conductor for connecting the access node to an optical network; and

A
a plurality of light sources emitting light signals at wavelengths of the optical network and connected to said first optical conductors such that the light signals of said light sources can be modulated in the user devices.

Claim 2 (original). The access node according to claim 1, wherein said at least one second optical conductor is one of a plurality of optical conductors connecting the access node to the optical network.

Claim 3 (original). The access node according to claim 1, wherein said light sources are lasers.

Claim 4 (original). The access node according to claim 1,
wherein said light sources are laser arrays.

Claim 5 (original). The access node according to claim 1,
which comprises optical coupling elements disposed between
said light sources and said first optical conductors.

Claim 6 (original). The access node according to claim 5,
wherein said optical coupling elements are selected from the
group consisting of first circulators and directional
couplers.

Claim 7 (original). The access node according to claim 1,
which comprises a first switching matrix connected between
said light sources and said first optical conductors.

Claim 8 (original). The access node according to claim 7,
wherein said first switching matrix capable of multicasting.

Claim 9 (original). The access node according to claim 1,
which comprises a signal processing block with optical
wavelength division multiplexers connected between said first
optical conductors and said second optical conductors.

Claim 10 (original). The access node according to claim 9, which comprises a second switching matrix disposed between said first optical conductors and said signal processing block.

Claim 11 (original). The access node according to claim 9, wherein said signal processing block includes at least one additional signal processing unit.

Claim 12 (original). The access node according to claim 11, wherein said at least one additional signal processing unit is selected from the group consisting of a switching matrix, an optical switch, an optical amplifier, and an optical monitoring device.

Claim 13 (original). The access node according to claim 10, which comprises a further switching matrix combined with said second switching matrix.

Claim 14 (currently amended). In combination with an access node according to claim 1, a user device configured for connecting to the access node, the user device comprising a second circulator and a modulator to be connected to an information source.

Claim 15 (original). In combination with an access node according to claim 1, a user device configured for connecting to the access node, the user device comprising a modulator operating in reflection mode and configured to be connected to an information source.

Claim 16 (original). A method of feeding a plurality of signals from a plurality of users into an optical network, which comprises the following steps:

generating a number light signals of different wavelength in an access node;

extracting the light signals from the access node and transmitting the light signals to a number user devices;

modulating the light signals with user signals in the user devices to form modulated light signals;

injecting the modulated light signals into the access node;

generating wavelength division multiplex signals in the access node; and

feeding the wavelength division multiplex signals into the optical network.

Claim 17 (canceled).

Claim 18 (canceled).

Claim 19 (canceled).

Claim 20 (currently amended). A method of feeding a plurality of signals from a plurality of users into an optical network, which comprises the following steps:

providing an access node according to claim 1 and connecting a number of user devices at least one user device according to claim 14, each with a circulator and a modulator to the access node;

~~and carrying out the method according to claim 15 with the access node and the at least one user device;~~

generating a number of light signals of different wavelength in the access node;

extracting the light signals from the access node and transmitting the light signals to a number the user devices;

modulating the light signals with user signals in the user devices to form modulated light signals;

injecting the modulated light signals into the access node;

generating wavelength division multiplex signals in the access
node; and

feeding the wavelength division multiplex signals into the
optical network.

Claim 21 (new). A method of feeding a plurality of signals from a plurality of users into an optical network, which comprises the following steps:

generating a number of light signals of different wavelength in the access node according to claim 1;

extracting the light signals from the access node and transmitting the light signals to a number user devices;

modulating the light signals with user signals in the user devices to form modulated light signals;

injecting the modulated light signals into the access node;

generating wavelength division multiplex signals in the access node; and

feeding the wavelength division multiplex signals into the optical network.

Claim 22 (new). A method of feeding a plurality of signals from a plurality of users into an optical network, which comprises the following steps:

generating a number of light signals of different wavelength in an access node;

extracting the light signals from the access node and transmitting the light signals to a number user devices;

modulating the light signals with user signals in the user devices to form modulated light signals;

injecting the modulated light signals into the access node;

generating wavelength division multiplex signals in the access node; and

feeding the wavelength division multiplex signals into a user device configured for connecting to the access node according to claim 1, the user device comprising a circulator and a modulator to be connected to an information source.

Claim 23 (new). A method of feeding a plurality of signals from a plurality of users into an optical network, which comprises the following steps:

generating a number of light signals of different wavelength in an access node;

extracting the light signals from the access node and transmitting the light signals to a number user devices;

modulating the light signals with user signals in the user devices to form modulated light signals;

injecting the modulated light signals into the access node;

generating wavelength division multiplex signals in the access node; and

feeding the wavelength division multiplex signals into user devices configured for connecting to the access node according to claim 1, the user devices comprising a modulator operating in reflection mode and configured to be connected to an information source.